

IN THE SPECIFICATION

Please replace paragraph [0024] on pages 8 and 9 with:

[0024] In accordance an alternative embodiment of the present invention, the radiation beam generated by radiation source 12 serves as both a radiation treatment beam and an image forming beam. Apparatus 20 includes an image detector (not shown in Fig. 2) for detecting the images of the target or fiducial markers on the patient formed by the radiation beam generated by radiation source 12. In a typical radiation treatment therapy, the radiation beam generated by radiation source 12 is a high energy X-ray beam at an MV energy spectrum. On the other hand, the image beam generated by image beam source 11A or 11B typically has a kV energy spectrum. A system using X-ray radiation at different energy spectrums for imaging is described in U.S. Patent Application Serial No. 10/033,327 entitled "RADIOTHERAPY APPARATUS EQUIPPED WITH AN ARTICULABLE GANTRY FOR POSITIONING AN IMAGING UNIT" and filed on November 2, 2001 and U.S. Patent Application Serial No. 10/013,199 entitled "X-RAY IMAGE ACQUISITION APPARATUS" and filed on November 2, 2001, which are incorporated herein by reference in their entireties.